AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior revisions, and listings, of claims in the application.

Listing of Claims:

1.   (Currently amended) A ~~computer-implemented~~ **computer readable storage medium having a computer program stored thereon for implementing** a mapping method of classifying a plurality of informational items in an information retrieval system **having a database, said computer program comprising a set of instructions for implementing said** ~~the~~ method comprising the steps of:

identifying a first informational item;

identifying a second informational item;

dynamically updating at least one relationship field defining similarities of respective characteristic between said first informational item and said second informational item in an information retrieval session, wherein said fields are used for representing a data item classification process comprising the combination of one or more algorithms working in conjunction to produce an output simulating a non-conventional Bayesian-type Belief Network;

~~applying an ensemble of algorithms to determine an integer-weight relationship link between said first and second informational items;~~

detecting an access of said first informational item;

detecting an access of said second informational item;

establishing that a relationship link exists between said first informational item and said second informational item;

determining an integer-value weight based on the historical frequency of said

relationship link;

applying ~~an ensemble of~~ **the combination of one or more said** algorithms to said

first and second informational items relative to said integer-value weight of said

relationship link **to produce an output**;

assigning said integer-value weight to ~~the~~ **said** output ~~of said ensemble of~~

~~algorithms~~; and

storing ~~the~~ **said** output ~~of said ensemble of algorithms~~ **being at least partially**

indicative of the classification of said informational items.

2.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 1 wherein said steps of identifying and detecting the second informational item includes

identifying and detecting of a plurality of informational items.

3.   (Cancelled)

4.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, further comprising the step of:

applying an algorithm for data aging wherein the usage of the relationship link is

monitored and used as feed back for the integer-value weight associated with the

relationship link.

5.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 4, further comprising the step of:

applying a pruning algorithm wherein external information regarding the

usefulness of at least one relationship link is utilized to modify the integer-value weight

or existence of a recorded relationship link.

6.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 5, wherein said pruning algorithm performs the removal of irrelevant relationship links

subsequent to the data aging feedback process.

7.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 5, wherein said pruning algorithm makes use of a user determined feedback of the

usefulness of a relationship link.

8.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, wherein ~~said ensemble includes~~ a plurality of algorithms **is used** and wherein said

relationship link integer-value weight is adjusted in direct proportion to the number of **said**

algorithms **used to** ~~within said ensemble of algorithms that~~ determine the existence of said

relationship link.

9.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, wherein said relationship link is positioned in a list in direct proportion to the degree

of consensus among said ~~ensemble of~~ algorithms.

10.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, ~~wherein said ensemble includes a plurality of algorithms and~~ wherein each algorithm

used ~~within said ensemble of algorithms~~ runs independently of all other algorithms.

11.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, further comprising the step of merging the outputs of said ~~ensemble of~~ algorithms.

12.   (Currently amended) The ~~method~~ **computer readable storage medium** as recited

in claim 2, further comprising the step of recording said relationship link in ~~a~~ **said** non-Bayesian-

type **Belief Network** ~~network~~.

13.   (Cancelled)

14.   (Currently amended) ~~An apparatus~~ **A computer readable storage medium**

having a computer program stored thereon for providing classification of informational items

in an information retrieval system **having a database, said computer program** having a

network structure which allows cycles comprising:

        means for detecting the access of informational items;

        means for dynamically updating at least one relationship field defining

similarities of respective characteristic between said first informational item and

said second informational item in an information retrieval session, wherein said

fields are used for representing a data item classification process;

        means for applying said data item classification process comprising the

combination of one or more algorithms working in conjunction to produce an

output simulating a non-conventional Bayesian-type Belief Network;

        ~~means for applying an ensemble of algorithms to the accessed informational~~

~~items;~~

means for establishing the existence of relationship links between said

informational items to enhance the effectiveness of said information retrieval system;

means for weighting said relationship links, said weight being directly

proportional to the outcome of ~~said ensemble of~~ **the combination of one or more said**

algorithms; and

means for storing said relationship links and relationship link weights.

15.   (Currently amended) The ~~apparatus~~ **computer readable storage medium** of

claim 14 including:

means for aging said relationship links; and

means for pruning said relationship links.

16.   (Currently amended) The ~~apparatus~~ **computer readable storage medium** of

claim 15 including means for merging the resulting output of said ~~ensemble of~~ algorithms into a

knowledge network.

17.   (Original) A computer readable storage medium having stored thereon a computer

program for implementing a method of classifying a plurality of information items in an

information retrieval system, said computer program comprising a set of instructions for

implementing the steps recited in claim 2.

18.   (Currently amended) The computer readable storage medium according to claim

17, wherein said computer program further comprises one or more instructions for clustering the

resulting output of said ~~ensemble of~~ algorithms into a knowledge network.

19. (Original) The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through weighting of said relationship links.

20. (Original) The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through pruning of said relationship links.

21. (Original) The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through aging of said relationship links.

22. (Original) The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through weighting, pruning and aging of said relationship links.

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Currently amended) The ~~method~~ **computer readable storage medium** as recited in claim 4, wherein said algorithm for data aging runs as a function of traffic load to age the relationship links according to relevance of the relationship links.

28.   (Currently amended) A ~~computer-implemented~~ **computer readable storage medium having a computer program stored thereon for implementing a** mapping method of classifying a plurality of informational items in an information retrieval system **having a database**, **said computer program comprising a set of instructions for implementing said** ~~the~~ method comprising the steps of:

detecting an access of a first informational item;

detecting an access of a second informational item;

establishing that a relationship link exists between said first informational item and said second informational item;

dynamically updating at least one relationship field defining similarities of respective characteristic between said first informational item and said second informational item in an information retrieval session, wherein said fields are used for representing a data item classification process comprising the combination of one or more algorithms working in conjunction to produce an output simulating a non-conventional Bayesian-type Belief Network;

~~determining an integer-value weight based on the historical frequency of said relationship link;~~

applying ~~an ensemble of clustering~~ **the combination of one or more said** algorithms directly proportional to said integer-value weight of said relationship link; and

combining and merging the output of ~~said ensemble of clustering~~ **said** algorithms to pre-populate the informational retrieval system; and

storing ~~the~~ **said** output ~~of said ensemble of clustering algorithms~~ **being at least partially indicative of the classification of said informational items**.